

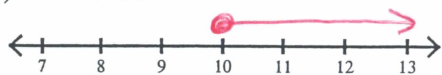
Algebra 3.2 Homework

Name ANSWER KEY

Solving One-Step Inequalities by Adding/Subtracting Date _____ Period _____

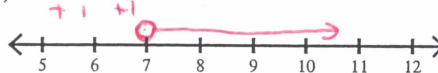
Solve each inequality and graph its solution.

1) $x + 8 \geq 18$



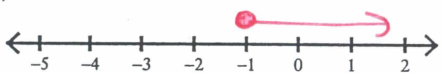
$$\begin{array}{r} x + 8 \geq 18 \\ -8 \quad -8 \\ \hline x \geq 10 \end{array}$$

2) $x - 1 > 6$



$$x > 7$$

3) $-7 + x \geq -8$



$$\begin{array}{r} -7 + x \geq -8 \\ +7 \quad +7 \\ \hline x \geq -1 \end{array}$$

4) $x - 1 \leq 3$



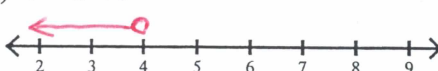
$$\begin{array}{r} x - 1 \leq 3 \\ +1 \quad +1 \\ \hline x \leq 4 \end{array}$$

5) $n - 2 \leq 4$



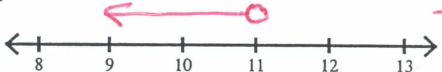
$$\begin{array}{r} n - 2 \leq 4 \\ +2 \quad +2 \\ \hline n \leq 6 \end{array}$$

6) $v - 1 < 3$



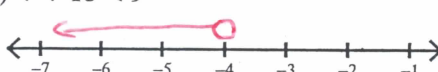
$$\begin{array}{r} v - 1 < 3 \\ +1 \quad +1 \\ \hline v < 4 \end{array}$$

7) $-18 + n < -7$



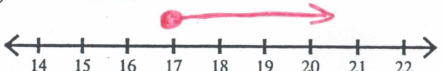
$$\begin{array}{r} -18 + n < -7 \\ +18 \quad +18 \\ \hline n < 11 \end{array}$$

8) $r + 13 < 9$



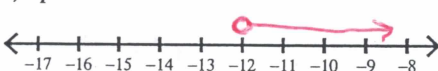
$$\begin{array}{r} r + 13 < 9 \\ -13 \quad -13 \\ \hline r < -4 \end{array}$$

9) $n - 4 \geq 13$



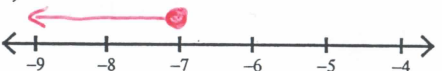
$$\begin{array}{r} n - 4 \geq 13 \\ +4 \quad +4 \\ \hline n \geq 17 \end{array}$$

10) $p + 8 > -4$



$$\begin{array}{r} p + 8 > -4 \\ -8 \quad -8 \\ \hline p > -12 \end{array}$$

11) $17 + k \leq 10$



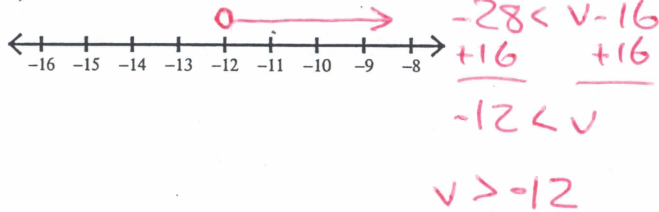
$$\begin{array}{r} 17 + k \leq 10 \\ -17 \quad -17 \\ \hline k \leq -7 \end{array}$$

12) $-2 + x \leq -16$

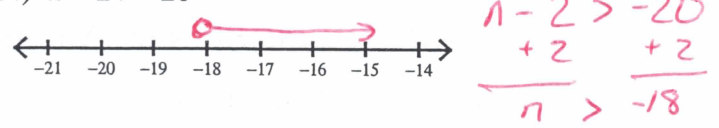


$$\begin{array}{r} -2 + x \leq -16 \\ +2 \quad +2 \\ \hline x \leq -14 \end{array}$$

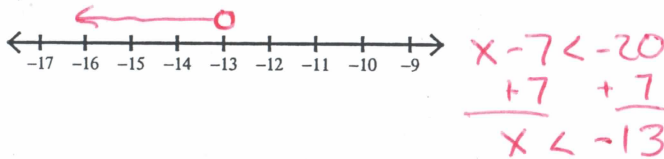
13) $-28 < v - 16$



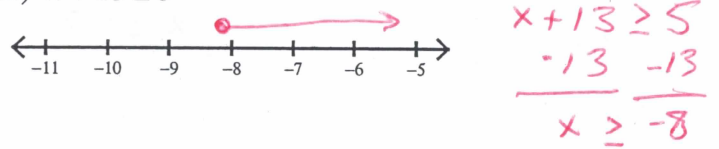
14) $n - 2 > -20$



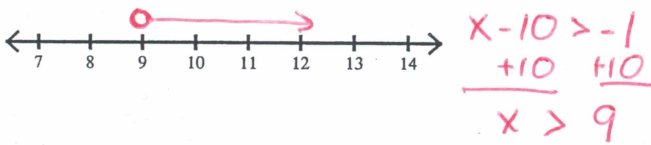
15) $x - 7 < -20$



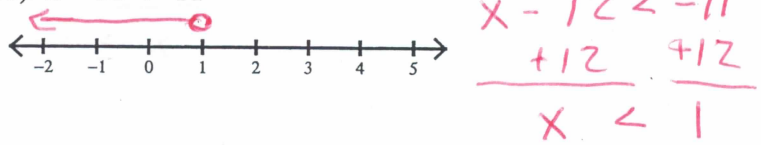
16) $x + 13 \geq 5$



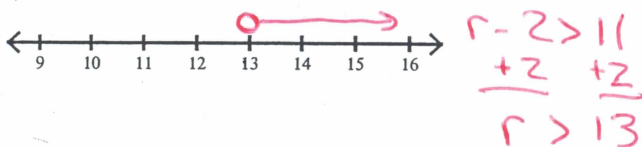
17) $x - 10 > -1$



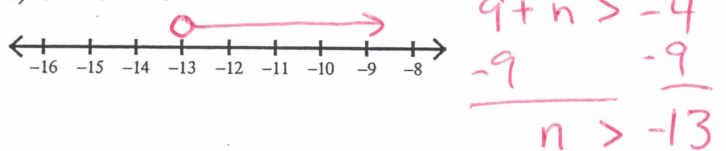
18) $x - 12 < -11$



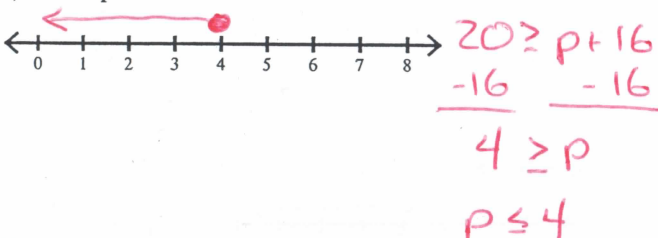
19) $r - 2 > 11$



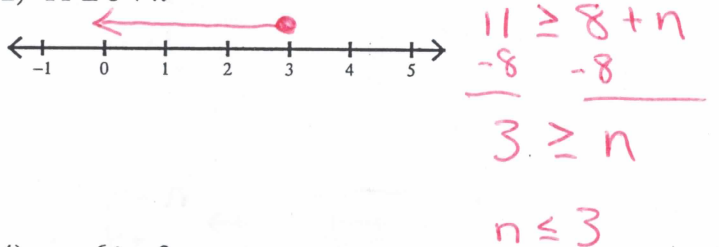
20) $9 + n > -4$



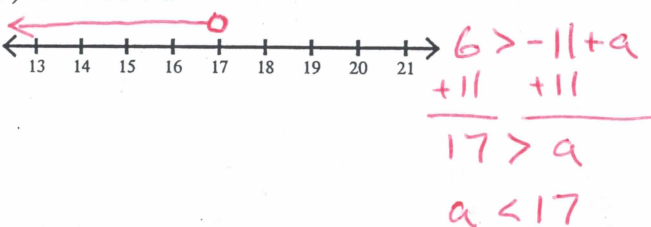
21) $20 \geq p + 16$



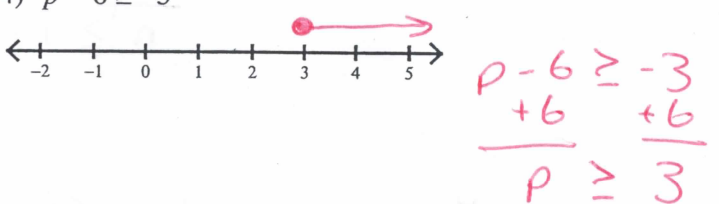
22) $11 \geq 8 + n$



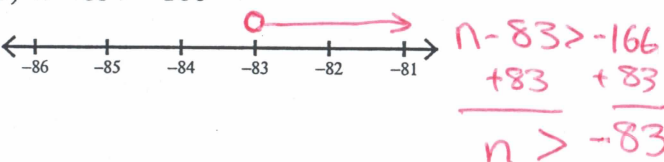
23) $6 > -11 + a$



24) $p - 6 \geq -3$



25) $n - 83 > -166$



26) $-3 \geq x + 16$

